What is Claimed is:

1. A fume hood management system comprising:
2 collection means for collecting data
3 representing an operation state from a plurality of fume

- 4 hoods; and
- 5 a server apparatus which comprises arithmetic
- 6 means for calculating a simultaneous utilization ratio
- 7 on the basis of the number of simultaneously used hoods
- 8 and the total number of fume hoods, the number of
- 9 simultaneously used hoods being obtained from the data
- 10 collected by said collection means and representing the
- 11 number of fume hoods that are being used.
 - 2. A system according to claim 1, further
 - 2 comprising a plurality of fume hoods each of which
 - 3 comprises monitor means for monitoring the operation
 - 4 state.
 - 3. A system according to claim 1, wherein the
- 2 arithmetic means calculates the simultaneous utilization
- 3 ratio by dividing the number of simultaneously used
- 4 hoods by the total number of fume hoods.
 - 4. A system according to claim 2, wherein
- 2 said monitor means comprises operator
- 3 detection means for detecting a presence of an operator,

4 and said arithmetic means calculates the 5 simultaneous utilization ratio by defining fume hoods 6 7 whose operator detection means detect no operators and whose sashes are open as fume hoods that are not being 8 used, and sets the calculated simultaneous utilization 9 ratio as an ideal value. 10 5. A system according to claim 1, wherein said arithmetic means comprises 2 3 maximum exhaust airflow calculation means for calculating a maximum exhaust airflow as a sum of 4 instantaneous exhaust airflows of said fume hoods on the 5 basis of the collected data, and 6 7 safety margin calculation means for 8 calculating a safety margin as a difference between the 9 maximum exhaust airflow and a design maximum exhaust airflow which represents a maximum exhaust airflow that 10 can be exahusted by an exhaust system connected to said 11 plurality of fume hoods. 12 6. A system according to claim 5, wherein said 2 arithmetic means calculates the safety margin by assuming that exhaust airflows of fume hoods whose 3 operator detection means detect no operators and whose 4 sashes are open equal a predetermined minimum exhaust 5 6 airflow, and sets the safety margin as an ideal value.

- 7. A system according to claim 1, further
- 2 comprising a terminal apparatus which is connected to
- 3 said server apparatus through a communication network
- 4 and comprises display means for displaying an arithmetic
- 5 result by said arithmetic means.
 - 8. A system according to claim 1, wherein said
- 2 server apparatus comprises said data collection
- 3 apparatus and said arithmetic means.
 - 9. A system according to claim 2, wherein
- 2 said fume hood comprises
- 3 an enclosure having a movable sash, and
- 4 aperture ratio sensor means for detecting an
- 5 aperture ratio of the sash.